

GenCore version 5.1.4.p5.4578
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OM nucleic - nucleic search, using sw model

Run on: March 13, 2003, 15:34:02 ; Search time 139.699 Seconds
(without alignments)
6045.779 Million cell updates/sec

Title: US-09-808-743A-1

Perfect score: 2754

Sequence: 1 atgacgcctgcgcataatgat.....ggagagctggcagagatag 2754

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 441362 seqs, 153318381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_Mn:*
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6: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2747.6	99.8	3635	2	US-08-588-983-15
2	2747.6	99.8	3635	2	US-08-588-976-15
3	1461.8	53.1	3647	2	US-08-588-983-13
4	1461.8	53.1	3647	2	US-08-588-976-13
5	1221.4	44.4	2911	2	US-08-588-983-11
6	1221.4	44.4	2911	2	US-08-588-976-11
7	1218.2	44.2	2911	2	US-08-588-983-8
8	1218.2	44.2	2911	2	US-08-588-976-8
9	990.8	36.0	3692	2	US-08-588-983-17
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16	522.8	19.0	1769	2	US-08-588-976-19
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19	103.8	3.8	492	1	US-07-872-678A-8
20	99.8	3.6	183	1	US-07-872-678A-43
21	80	2.9	737	1	US-07-872-678A-4
22	78.4	2.8	532	1	US-07-872-678A-10
23	70.6	2.6	860	4	US-08-998-416-546
24	62.6	2.3	571	1	US-07-872-678A-6
25	56.6	2.1	396	1	US-07-872-678A-9
26	55.8	2.0	434	1	US-07-872-678A-5
27					

28	54.4	2.0	156	1	US-07-872-678A-45	Sequence 45, Appl	
29	52.2	1.9	1128	1	US-07-872-678A-11	Sequence 11, Appl	
30	50.6	1.8	7218	1	US-08-233-463-14	Sequence 14, Appl	
c	30	40.6	1.5	4411529	4	US-09-103-840A-1	Sequence 1, Appl
31	40.2	1.5	5228	4	US-09-428-711A-15	Sequence 15, Appl	
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33	38.8	1.4	1707	1	US-08-790-309-1	Sequence 1, Appl	
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35	38.4	1.4	1548	2	US-08-762-106-5	Sequence 5, Appl	
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38	38.4	1.4	1581	2	US-09-320-774-6	Sequence 6, Appl	
39	38.2	1.4	2640	4	US-08-684-932A-37	Sequence 37, Appl	
40	37.6	1.4	4776	2	US-08-852-401-1	Sequence 1, Appl	
41	37.2	1.4	528	1	US-08-828-384-1	Sequence 1, Appl	
42	37	1.3	289	4	US-09-007-005-17	Sequence 17, Appl	
43	37	1.3	289	4	US-09-244-796-17	Sequence 17, Appl	
44	36.8	1.3	1618	2	US-08-533-669A-9	Sequence 9, Appl	
45	36.8	1.3	1618	2	US-08-607-509-1	Sequence 1, Appl	

ALIGNMENTS

```
RESULT 1
US-08-588-983-15
; Sequence 15, Application US/08588983
; Patent No. 5854067
; GENERAL INFORMATION:
; APPLICANT: Christopher B. Newgard, et al.
; TITLE OF INVENTION: Methods and Compositions
; TITLE OF INVENTION: for Inhibiting Hexokinase
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: US
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/588,983
; FILING DATE: Concurrently herewith
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Fussey, Shelley P.M.
; REGISTRATION NUMBER: 39,458
; REFERENCE/DOCKET NUMBER: UTSD:424/FUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (512) 474-7577
; TELEX: n/a
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3635 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-588-983-15
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Query Match 99.8%; Score 2747.6; DB 2; Length 3635;
Best local similarity 99.9%; Pred. No. 0;
Matches 2750; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db 318 AAGCGGTTCCGGAGAGATGAGAAAGGCTTAGAGGCTACACCCACCCCTACACAGCT 377
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QY 301 GCGCTCCAGAGAGTGGAGATGAGAACCAATCTACGCCATCTTGTAGGACATATGCGG 360
Db 498 GCGCTCCAGAGAGTGGAGATGAGAACCAATCTACGCCATCTTGTAGGACATATGCGG 557
QY 361 GCGAGTGAACCCAGCTGTTTACCAACATGCCCAATGCCCTGCAACTTTCATGAGAC 420
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QY 481 ACAAAACGTGATGAGACTTTTGTGCTGCTGAGCTAAGGGGTTCAAGTCCAGTGGCGT 540
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QY 541 GAAGCGAGAGATGCTGAGACCTGATCCGGAAGGTTATCCAGGCGAGAGGGACTTTGAC 600
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QY 1441 CACGACAGGCTTCTGGGGTTAGAGAAAGATGAAGGTGAATGAGCAAGGCTGTGAGC 1500
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QY 1801 ACATTCCTCTTCCCTTGGCAGAGAACAGCTTGAACAGACATCTTCTCAAGTGACA 1860
Db 1998 ACATTCCTCTTCCCTTGGCAGAGAACAGCTTGAACAGACATCTTCTCAAGTGACA 2057
QY 1861 AAGGATTCAGAGCATCTGCGCGGAGGGGTAGAGATGTGTACACCTTGTGAAGAGCG 1920
Db 2058 AAGGATTCAGAGCATCTGCGCGGAGGGGTAGAGATGTGTACACCTTGTGAAGAGCG 2117
QY 1921 ATTCACCGCGAGAGAGATTTGACCTGATGTGGTTGGCGGTGATGACACAGTTGGG 1980
Db 2118 ATTCACCGCGAGAGAGATTTGACCTGATGTGGTTGGCGGTGATGACACAGTTGGG 2177
QY 1981 ACTATGATGACTTTGGGTACGAAGACCTTACTGTGAAGTTGGCTCATTTGTTGGCACC 2040
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 Db 2538 ATCTTGAAGCTAAGTCTGCTCTCAGATAGAGGAGCGCTTACCCCTGCTACAGGTT 2597
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 Db 2598 CCGTCCATCCGCGCCACCTAGGGCTGAGAGACGCTGGAGTACAGCATCATCGTGAAG 2657
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 Db 2778 GACGGGACTCTGTATAGCTTCACTTCTCACTTTGCCAAGTCAATGCATGAGACGCTGAGA 2837
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 Db 2898 GCAGCTCTCACTGCGCGCTGGCGCTGGCGGAGGAGCGCTGGCGGAGATAG 2951

RESULT 2

us-08-588-976-15
 : Sequence 15. Application us/08588976

: Patent No. 5891717
 : GENERAL INFORMATION:
 : APPLICANT: Christopher B. Newgard, et al.
 : TITLE OF INVENTION: Methods and Compositions for
 : NUMBER OF SEQUENCES: 43
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Arnold, White & Durkee
 : STREET: P.O. Box 4433
 : CITY: Houston
 : STATE: TX
 : COUNTRY: US
 : ZIP: 77210
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: PatentIn Release #1.0, Version #1.30
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/588,976
 : FILING DATE: Concurrently herewith
 : CLASSIFICATION: 435
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Fusey, Shelley P.M.
 : REGISTRATION NUMBER: 39,458
 : REFERENCE/DOCKET NUMBER: US/SD:481/FUS
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: (512) 418-3000
 : TELEFAX: (512) 474-7577
 : TELEX: n/a
 : INFORMATION FOR SEQ ID NO: 15:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 3635 base pairs
 : TYPE: nucleic acid
 : STRANDEDNESS: single
 : TOPOLOGY: linear

us-08-588-976-15
 Query Match 99.8%; Score 2747.6; DB 2; Length 3635;
 Best Local Similarity 99.9%; Pred. No. 0; Mismatches 4; Indels 0; Gaps 0;
 Matches 2750; Conservative 0;

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 Db 198 ATGATGCGCTCGCATATGATTCGCTGCTTATTCACGAGAGCTCAACCAAAACCAAGTGCAG 257
 QY 61 AAGGTTGACCAATTTCTCTACCAATGCGTCTCTCAGATGAGACCTTCTGAGATTTCT 120
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 Db 258 AAGGTTGACCAATTTCTCTACCAATGCGTCTCTCAGATGAGACCTTCTGAGATTTCT 317
 QY 121 AGCGGTTCCGGAAGAGATGAGAAAGGGCTAGAGGCTACCAACGACCTTACAGAGCT 180
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 Db 318 AGCGGTTCCGGAAGAGATGAGAAAGGGCTAGAGGCTACCAACGACCTTACAGAGCT 377
 QY 181 GTGAAATGTTGCTTCTCTTGTGAGTCAACTCCGATGGGACAGACATGGGAGTTTC 240
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 Db 378 GTGAAATGTTGCTTCTCTTGTGAGTCAACTCCGATGGGACAGACATGGGAGTTTC 437
 QY 241 CTGCGTCTGGATCTTGAGAGAACCAACTCCGCTGCTCCGAGTAAAGGTGACGACCAAT 300
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 Db 438 CTGCGTCTGGATCTTGAGAGAACCAACTCCGCTGCTCCGAGTAAAGGTGACGACCAAT 497
 QY 301 GCGCTCCAGAGATGGAGATGAGAAACAGATCTACGCCCATCTTGAAGACATCATGCGG 360
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 Db 498 GCGCTCCAGAGATGGAGATGAGAAACAGATCTACGCCCATCTTGAAGACATCATGCGG 557
 QY 361 GGCAGTGAACCCAGCTGTTTGAACCAATGCCGAATGCTTGCCCAATTCATGACAAAG 420
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 Db 558 GGCAGTGAACCCAGCTGTTTGAACCAATGCCGAATGCTTGCCCAATTCATGACAAAG 617
 QY 421 CTCAAAATCAAAAGAAAGAGCTCCCTGCTGGTTTCACTTCTGCTTCCCTCCACCCAG 480
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 QY 481 ACAAACTGATGAGATTTTGGTCTGCTGACTAAGGGCTTCAAGTCCAGTGGCGTG 540
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 QY 541 GAAGGAGAGATGTGTGACCTGATCCGGAAGTTATCCAGCGCAGAGGGACTTTGAC 600
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 QY 601 ATTGACATTTGGCGCGTGGGAATGACACAGTTGGGACCAATGATTTGGCTATGAT 660
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 Db 858 GATCAGAACTGCGAATTTGTTCTATTTGGGCACTGGCAGCAACGCCCTCTACATGGAG 917
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 Db 918 GAAATGCTCATATTGACATGTGTGAGAGGATATGAGGGCGGCAATGATCAACATGAG 977
 QY 781 TGGGAGGCTTTGGGAGAGAGCGTACACTCAATGACATCCGAAACGATTGACCGAGAG 840
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 Db 978 TGGGAGGCTTTGGGAGAGAGCGTACACTCAATGACATCCGAAACGATTGACCGAGAG 1037
 QY 841 ATCGACATGGGCTCGCTGAACCCCTGGGAAGCAGCTGTTTGAAGAGATGATTAGCGGGATG 900
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 Db 1038 ATCGACATGGGCTCGCTGAACCCCTGGGAAGCAGCTGTTTGAAGAGATGATTAGCGGGATG 1097
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 Db 1098 TACATGGGAGAGCTGTGACAGCTCATCTGTTGAAGATGGCCAAGGACAGCTGTGTTTC 1157
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 Db 1158 CAAGGAAACTCAGCCCGAGAACTCTTACCACTGCTCTTTCGAGACCAAAAGATGTCTCG 1217

Frì Mar 14 10:15:04 2003

us-09-808-743a-1.rni

Page 5

REFERENCE/DOCKET NUMBER: UTSD:424/FUS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (512) 418-3000
TELEFAX: (512) 474-7577
TELEX: n/a
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 3647 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-568-983-13

Query Match	53.1%	Score 1461.8	DB 2	length 3647
Best Local Similarity	70.9%	Pred. No. 0		
Matches 1940	Conservative	0	Mismatches 797	Indels 0
				Gaps 0

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Db	212	ACACGATTCAAGAAAGAGATGAAGAGGCGCTCTCCGGATTATTAATCCAAACGCGCTCC	271
QY	181	GTGAAATGTCCTTACCTTTGTGAGGTCAACTCCGATGGAGCAGACATGGGAGATTG	240
Db	272	GTCAGATGCTGCGCCACTCTCTCGGTCATTCCGAGGCGTCAAGAAAGGGGAGATTTC	331
QY	241	CTGCGTCTGGATCTTGGACGAAACCACTCCGTCTGCTCCGAGTAAGGGTGACGCAAT	300
Db	332	ATTGCGCTGGATCTCGGGGGCTCTCTCTTGGAACTCTCGGGGTGCAAGTCAACAG	391
QY	301	GCGCTCCAGACAGTGGAGATGGAACCAAGTACAGCCATCCGTGGAGCAATCATGCGG	360
Db	392	AAGAACCGAAGCGTCAGCATGGAATCTGAGATCTTACACACACCCAGAGAACATCTGTCAT	451
QY	361	GCGACTGGAAACCAAGCTGTTTGGACACATGCGCGAATGCTGGCCAATTCATGACAG	420
Db	452	GCGACTGGAAACCAAGCTTTTGCATCATGTCGCTACTGCTCGGAGACTTCATGGAGAA	511
QY	421	CTACAAATCAAGAGAGAAAGAACTCCCTCTGGGTTTCAACTTCTCTGTTCCCTCGCACAG	480
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QY	481	ACAAACTGATGATGAGATTTTGGTCTCGTGCATGAAGGGGTTCAAGTCACAGTGGCGTG	540
Db	572	TCCAGATAGATGAGGCGTCTACTGATCAGCTGGACAAAGCGGTTCAAGACGACATGGCGTG	631
QY	541	GAAAGCAGAGATGTGTGGACCTGATCCGGAAGTTATCCAGCGCAGAGGGGACTTTGAC	600
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Db	692	GCTAATATTGTCCGCTGGTAAATGACCACTAGGACCAATGATGACTCTCGGTTATGAT	751
QY	661	GATCAGACTCGGACATTTGGTCTCTATTGTGGCACTGGCAGACAGCGCTGTCATATGAG	720
Db	752	GACCAACAGTGTGAAGTGGCGCTGATCTATTGGCACAGGCAACCAATGCTTGTCTACATGGAG	811
QY	721	GAAATGCTCATATTTACATGGTGGAGGAGATGAGGGGCGCATGTGCATCAACATGAG	780
Db	812	GAACTGCGCACATGACCTGGTGAAGGACGACGAGGGAAGATGTGTTAATACACGAA	871
QY	781	TGGGAGGCTTTGGGAGACAGCGGTACACTCATGACATCCGACCGAGCTTTGACCGAGAG	840
Db	872	TGGGAGGCTTTGGGAGATGATGGGCTCGGTGAAGACATCCCAACCGAGGTTTGAACAGAG	931

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Db	992	TACATGGGGAGCGTGGTCCGGCTTAATCTGTGGTAAGATGGCCAAAGAGGCTCTTATTC	1051
OY	961	CAAGGAAACTCAGCCCAAGAACTCTTACCACTGGCTCCCTTGAGAACCAAGATGTCTCG	1020
Db	1052	GAAGGGCGCATCACTCCAGAGGCTGCTCACGAGGGGGAAGTTCAACACTAGAGCTGTCC	1111
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Db	1112	GCCATTTGAAAGAGTATGAAGAAAGCATTTCAAAAATGGCAAGAAATCTTAACCCGTTGGGA	1171
OY	1081	CTGATCTCATTTGCAAGGAGATTGTGTGGCCAGCCACCGAATGTGCAGATTGTGTCCAGC	1140
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Db	1352	CCACAGTACTCCGGGCGGTTTCCAAAGAACCTTGAGGCGGGTGTCTCTGACTCCGACGTC	1411
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Db	1952	AAGGTTTCAAGCCACTGATGTGTGAGGGCCATGATGTACCTCTTACTAGGGATGTGCG	2011
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Db 2012 GTGAAGAGGAGAGAAATTGACTTGATGTGTGGCTGTGTCACAGCACCCTGGCC 2071
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RESULT 4
US-08-588-976-13

; Sequence 13, Application US/08588976
; Patent No. 5891717

; GENERAL INFORMATION:

; APPLICANT: Christopher B. Newgard, et al.

; TITLE OF INVENTION: Methods and Compositions for
; Inhibiting Hexokinase

; NUMBER OF SEQUENCES: 43

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433

; CITY: Houston
; STATE: TX

; COUNTRY: US
; ZIP: 77210

; COMPUTER READABLE FORM:

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; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/588,976
; FILING DATE: Concurrently herewith
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fussey, Shelley P.M.
; REGISTRATION NUMBER: 39,458
; REFERENCE/DOCKET NUMBER: UTSD:481/EUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (512) 474-7577
; TELEX: n/a
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3647 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-588-976-13

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Query Match      53.1%; Score 1461.8; DB 2; Length 3647;
Best local Similarity 70.9%; Pred No. 0;
Matches 1940; Conservative 0; Mismatches 797; Indels 0; Gaps 0;

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Db 212 ACACGATTCAGAAAGATGAAATGAGTGGCTCTCCGGGATTTATATGCAACAGCTCTG 271
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Qy 661 GATCAAGACTGCGAGATTTGTCTCATTTGTGGCACTGGCAGCAACGCTGTATCATGAG 720

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1  TITLE OF INVENTION:  Methods and Compositions
2  TITLE OF INVENTION:  for Inhibiting Hexokinase
3  NUMBER OF SEQUENCES:  43
4  CORRESPONDENCE ADDRESS:
5  ADDRESSEE:  Arnold, White & Durksee
6  STREET:  P.O. Box 4433
7  CITY:  Houston
8  STATE:  TX
9  COUNTRY:  US
10 ZIP:  77210
11 COMPUTER READABLE FORM:
12 MEDIUM TYPE:  Floppy disk
13 COMPUTER:  IBM PC compatible
14 OPERATING SYSTEM:  PC-DOS/MS-DOS
15 SOFTWARE:  Patent Release #1.0,  Version #1.30
16 CURRENT APPLICATION DATA:
17 APPLICATION NUMBER:  US-
18 FILING DATE:  Concurrently herewith
19 CLASSIFICATION:  424
20 ATTORNEY/AGENT INFORMATION:
21 NAME:  Fussey, Shelley P.M.
22 REGISTRATION NUMBER:  39,458
23 REFERENCE/DOCKET NUMBER:  UTSJ:424/FUS
24 TELECOMMUNICATION INFORMATION:
25 TELEPHONE:  (512) 418-3000
26 TELEFAX:  (512) 474-7577
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Query Match	44.4%	Score 1221.4;	DB 2;	Length 2911;
Best Local Similarity	65.7%	Pred. No. 0;		
Matches 1796; Conservative	0;	Mismatches 931;	Indels 6;	Gaps 1;

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Qy	601	ATTGACATTTGTGGCCGTGTGTGATGACACAGCTTGGACCATGATGACTTGTGGCTATGAT	660
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Qy	661	GATCAGAACTGGCAGATTGCTTCATTGTGGCACTGGCAGCAAGCGCTCCTACATGAGAG	720
Db	758	GACCAACATGTGAAGTGGGCTGATCTATTGGCACAGGACCAATGTGTTCTACATGAGAG	817
Qy	721	GAAATGCTCATATTGACATGGTGGAGGAGATGAGGGGGCATGTGCATCAACATTGAGAG	780
Db	818	GAACCTCCGACATCGACCTGGTGGAAAGGCGACAGAGGGAGAGATGTATTATACACGGAA	877
Qy	781	TGGGGAGCCTTTGGGAGCAGAGGCTACACTCATATGCAATCCGAACCGAGTTGACCCAGAG	840
Db	878	TGGGGAGCCTTTGGGAGATGATGGTCTCTGGAAACATCTCGAACCCTGGTTTGACAAGAG	937
Qy	841	ATCGACATGGGCTGCTGACACCTGGGAAGAGAGCTGTTTGAAGAATGATTACCGGATG	900
Db	938	TTAGACCGTGATCTCTCAACCTGGGAAGCAGCTGTTTCAGAAAGATGCTGAGACGATG	997
Qy	901	TTCATTGGGGAGCTGCTGAGGCTCATCTGTGTAAGATGCGCAAGCGAGAGCTGTTGTTTC	960
Db	998	TTCATTGGGGAGCTGCTCGGCTAATCCTGTGTAAGATGCGCAAGGAGGCGCTTCTATTTC	1057
Qy	961	CAAGGAAACCTCAGCCCGACAGACTCCTTACCACTGGCTCTTTCGAGAGCAAAAGATGCTCG	1024
Db	1058	GAAGGGCGCATCTACCTCCAGAGCTGCTCAGCAGGGGAAAGTTTCAACACTAGTACGCTGCC	1117
Qy	1021	GATATTGAAGAGATTAAGCATGCAATCGAAGAGGCTTACCAGAAATCCTGATGCGCGCTGGT	1080
Db	1118	CCCATTTGAAAAGATTAAGGAAGGCAATTCAAAATGCCAAGGAATCTTAAACCGCTTGGGA	1177
Qy	1081	CTGATTCATTTGACGAGGAGATTTGTGTGGCCACGACCGAATCTGCCAGATTTGTCTCACG	1144
Db	1178	GTGGAGCCGCTGATGTTGACTGTGTGTGCTGCGTCCAGACACTGTGCAAGATCTGTCTCTTC	1237
Qy	1141	CGCTTGGGCACTGTGTGGCAGCCGACCCCTGGCCGCTGTCTGGCGAATCTAAAGAGAAC	1200
Db	1238	CGATCAGCCCAACCTGTGTGGCCGCGCACGCTGGTGCATCTTGAAGCGCCTGGCGGACAAAC	1297
Qy	1201	AAGGGCGAGAGCGACTTTCGTCACCATGTGGTGTGATGTGCTCGTCTACAAAGAAACAT	1266
Db	1298	AAGGGCACCCACCTCTGGCGACACACGTTGGCTGGAGCGTTCTCTTACAAAGATGACAC	1357
Qy	1261	CGCCATTTTGGCAAGCTCTTCATTAAGGCAAGTGAAGGAGCGTGGTGGCCGACGTGATATGC	1332
Db	1358	CCACAGTACTCTCGGGCGGTTTCCACAGAACCTTACGAGCGGGTGTGCTGTGACTTCCGACGTC	1417
Qy	1321	CGCTTTCCTCGGCTCTGAGAGATGGCAGCGGCAGAGGGGGCTGCTATGGTGAAGCGCGTGGCT	1380
Db	1418	CGTTTCCCTCTCTCAGAGAGTGGGACGGGCAAGGGGGCGGCATGGTGAATACAGAGACC	1477
Qy	1381	TACCGTCTACGCTGACCAACACCGGGCCCGCGACAAACACCTTGAATGCTTCTGACCTGAC	1440
Db	1478	AGGATCGAGCGCCACCAAGAAAGAAAGTTCGACCAATCTCTGGCAGAGATTTCCAGCTGGAC	1537

QY	1441	CCGAGCAGCTTCTCGAGGCTTAAGAGAACATTAAGCTGGAAATGAGCAGGGCTCGAC	1500
Db	1538	GAGGAGACCTGAGGAAGTGATGAGCGCGGATCCACAGAGAGATGAGCCGTGGCCGAGG	1597
QY	1501	AAGGAGACGATCGCGTGGCCCTGTGAAGATCTGCCCACTTACGTGTGCGACACTGCA	1560
Db	1598	CTGAGACCCACGAGGAGGCCACAGTGAAGATTTCACCACTTACTGGCTTCCACCCCA	1657
QY	1561	GATGGCACACAGAAAGAGACTTCTTGCCCTTGGATCTTGGAGAGAACAACTTCCGGGTC	1620
Db	1658	GAAGGCTCAAGAACTCGGAGACTTTCCTCCTTAGACCTGGGAGAACCAACTTCAGAGTG	1717
QY	1621	CTGCTGTGGCTTGGCTTAATGSCAA-----GCGAGGGGGGTGAGATGCAATTAACAG	1674
Db	1718	ATGCTGTCAAAATGGGAGAGGGGGAGGAGGAGGCACTGAGCGCTGAAGCAAAACACCAG	1777
QY	1675	ATCTACTCCATCCCAACAGAGATTATGATATGGCACTGGGGAAAGACTCTTCGACCATT	1734
Db	1778	ATGTACTCCATCCCAAGGAGCGCCATAGACGGGCACTGCCAATATCCTTTGACTATATC	1837
QY	1735	GTCACAGTCATTCGCGACTTCCTGGAGTACATGGGCAATGAAGGGGTGTCCTGGCTTTG	1794
Db	1838	TCTGAATGATCTCTGTACTTCTCTTGACAAAGCATCAGATTAAGATGAACAGAACTGGCCTG	1897
QY	1795	GGTTTCACTTCTCCTCCCTTGGCAGCAAGAACAGCCTTGAACACAGACTCTCTTCAAG	1854
Db	1898	GGCTTCAACCTTCTCTTCCCTGTGAGGACAGAAAGACTTGAACAAAGGCACTCTCTCAAT	1957
QY	1855	TGCAACAAGGATTCAAAGCATCTGGCTCCGAGGGGTGAGAGATGTGTCACTTGTGTGAAG	1914
Db	1958	TGACCCAAGGCTTCAAAGCCTCTGTGAGCAGAAAGGAAACAAACATGTGTAGACTTCTCGA	2017
QY	1915	GAAGCATTCACCGGCAGAGAGAGATTTCACCTGATGTGTGTCCTGGTGAATACACA	1974
Db	2018	GATGCTATCAAGAGAGAGAGGGGACTTTGATGATGTGTGGCAATGGTGAACACACA	2077
QY	1975	GTTGGACTATGATGACTTGTGGCTACGAAAGCCTCACTGTGAAGTTGGCCTCATTTGTT	2034
Db	2078	GTGGCCACATATCTCCGTACTATGATGAAGACCCCACTGTGAGCTGAGCATGATTTGTG	2137
QY	2035	GGGACCGGAGAGCAACGCTGTCACATGGAAGAGATGTCGTAATGTGAGACTGGTGAACGA	2094
Db	2138	GGCACTGGCTGAATGTCCTGCTACATGAGAGAAATGCAAGATGTGAACTGTGGAAAGG	2197
QY	2095	GAGAGGAGCGATGTGTCAACATGAGATGGGAGCAATTTGGGACAAATGGCTGCCTG	2154
Db	2198	GATGAAGGAGCGATGTGCTCAACACGAGATGTGGCGCCTTCGGGAGACTCGGGAGACTG	2257
QY	2155	GATGACTTCGCGACCGTGTGTTGATGTGCTGTGAGATGAGCTTTCTCTCAACCCGTGGCAA	2214
Db	2258	GATGAATCTCTACTGAGATATACCGGAGTGTGTGATGAAGCTCAAGCAACCCGGTCAAG	2317
QY	2215	CAGAGGTTGAGAGATGATCAAGCGGCAATGACTTGGAGAGATTTGTGCGCAACATTTCTC	2274
Db	2318	CAGCTGTACGAAAGATCATCGTGGGAATATATGGCGAGCTGTATACGATCTTGCTGTG	2377
QY	2275	ATCGATTTACGAACCGGGGGGTGCTCTTCGAGGGCCGCACTCTAAGAGCGCTCAAGACA	2334
Db	2378	CTTAAAGCTGTGTGAGAAACCTTCTGTTTCAACGAGAGAGGCTCTGAGCACTCTCGCAGC	2437
QY	2335	AGGGAATCTCGAACTAAGTTCTGTCTAGATAGAGACGCACTGCTAGCCCTGTA	2394
Db	2438	CGTGTGCTTTGAAACCCGTTTCTGTCTACAAATGGAGAGACGACTCCGGGACCGAAAG	2497
QY	2395	CAGGTTCTGCCACTCTCGCCACCTAGGCTGAGAGACAGTGTGATGACATCATATC	2454
Db	2498	CAGATTCACAACATCTTAAGCACTCTGGGGCTTCGACCTCTGACCGCACTGTGCACATT	2557
QY	2455	GAGGAAGAGGTGTGCACTGTGGTTGGCCGGGCGCCTCAGACGCTCTGTGGCGCAGGACTG	2514
Db	2558	GTGGCCGCTGCTGTGAAGCGTGTCACTGTGGCCCGCCCATATATGTCTCTCGAGGACTA	2617
QY	2515	GCCTCGTAATGTGACAGATTAAGAGAGAACCTGTGGCTGTGACAAACCCCAAGTGCAGTG	2574

Db 2618 GCTGGGGTATTAATTCGATGGCCGAAGCCGAGTGAAGAGCTGATGGCATCTG 2677
Oy 2575 GCGTGGACGGAGCTCTGTATAGCTTCATCTCACTTTGCCAAGCTCATGTAGAGC 2634
Db 2678 GCGGTGATGCTCCGTGTACAGCTGACCCGAGCTTCAGAGAGGGTTCACGGCAGT 2737
Oy 2635 GTGAGAGATCTGCTCCGAATGTGACGTCTCTCTGAGTTCGAGAGGAGCGAGTGG 2694
Db 2738 GTGCGAGGCTACACCCAGCTGCGAATTCACCTTCATGTGAATCAGAGAGGCGACGGC 2797
Oy 2695 AAGGAGCAGCTCTCATCACTGCGCGGCTGC 2727
Db 2798 AGGGAGCGCGACGTGCTCTGCGGTGGCTGC 2830

RESULT 7
US-08-588-983-8
Sequence 8, Application US/08588983
Patent No. 5854067

GENERAL INFORMATION:
APPLICANT: Christopher B. Newgard, et al.
TITLE OF INVENTION: Methods and Compositions
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: TX
COUNTRY: US
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/588,983
FILING DATE: Concurrently herewith
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Fussey, Shelley P.M.
REGISTRATION NUMBER: 39,458
REFERENCE/DOCKET NUMBER: UTSD:424/FUS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (512) 418-5000
TELEFAX: (512) 474-7577
TELEX: n/a
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 2911 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-588-983-8

Query Match 44.2%; Score 1218.2; DB 2: length 2911;
Best Local Similarity 65.6%; Pred. No. 0;

Matches 1794; Conservative 0; Mismatches 933; Indels 6; Gaps 1;

Oy 1 ATATCGCCCTGCATATGATCGCTGCTTATTCACGGAGCTCAACCAACCAAGTCAG 60
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Oy 61 AAGGTGACCAATTTCTCTACACATGCTCTCAGATGAGACCTTTGTGAGATTTCT 120
Db 158 AAGATTGCAAGATATCTGATGCGCATGCGCTCTGTGATGATGATGATGATCTG 217
Oy 121 AGCGGTTCCGAAAGAGATGGAAGAGGCTAGAGCTACCGACCTTACGAGAGCT 180
Db 218 ACAGATTTCAGAAAGATGAGAAATGCGCTCTCCGGAGATTATATCAACAGCGCTCC 277

Oy 181 GTGAAATGTTGCTACTCTTTGTGAGTCACTCCGAGTGGAGACAGAACATGGGAGTTC 240
Db 278 GTCAAGATCTCTGCCACCTCTGCTCGGTCCATTCGCGAGGCTCAGAAAAGGGGATTC 337
Oy 241 CTGGCTGTGATCTTGGAGAAACAACTTCGTGTCTCCGATGAGGTGACGCAAT 300
Db 338 ATTGCCCTGTGATCTGGCGGGGTCTTCTTCGAATCTCTGGGTGAGGTGACACAG 397
Oy 301 GGCCTCCAGAGTGAAGTGAAGAACGATCTACGCTATCGCTTGGAGACATCATGCGG 360
Db 398 AAGAACCAAGAGCTCAGCATGAGTGTGATGATGACAGACCCAGAGAACATCTGTGAT 457
Oy 361 GCGAGTGAAGCAGCTGTTTACACATCGCGGATGCGGAGCCCACTTCAATGAGCAAG 420
Db 458 GCGAGTGAAGCAGCTTTCATCATGTGCGTGAATGCTGCGGAGACATTCATGAGAAA 517
Oy 421 CTACAAATCAAGAGAGAGAGCTCCCTGTGCTTACCTTCTCGTTCCCTGACCGAG 480
Db 518 AAGAAATCAAGAGACAAAGAGTTACCCGTGGGATTCACATTTCTTCCCTGCGACAA 577
Oy 481 ACAAACTGATGAGAGTTTGTGCTGCTGAGTGAAGGGGTTCAGTCCAGTGGCGTG 540
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Oy 541 GAAGCGAGAGTGTGAGACCTGATCCGAAAGTTATCCAGCGCAGAGGAGCTTTGAC 600
Db 638 GAAGGAGCGGATGTGTCAAGTTGCTGAATTAAGAACGAGGAGGAGCTATGAT 697
Oy 601 ATTGACATTGTGGCGCTGTGAATGACACAGTTGGACCATGATGACTTGTGCTATGAT 660
Db 698 GCTAACATTTGTCGCGGTGATGATGACAGATGAGCATGATGATGATGATGAT 757
Oy 661 GATCAGACCTGGGAGATGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
Db 758 GACCAACAGTGTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 817
Oy 721 GAATGCTGATATTTGATGATGATGAGGAGATGAGGCGGCTGCTGCTGCTGCTGCTG 780
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Db 878 TGGGAGCGCTTTGGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 937
Oy 841 ATGACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 900
Db 938 TTGACCGTGTGATCTCTCAACCTGCGAGACCTGTTGAGAGATGATGATGATGATG 997
Oy 901 TACATGGGGAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 960
Db 998 TACATGGGGAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1057
Oy 961 CAAGGAACTCAGCCCAAGACTCTTACACATGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
Db 1058 GAAGGGGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1117
Oy 1021 GATATTGAAGAGATGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1080
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Db 1178 GTGAGCGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1237
Oy 1141 CGCTGGCGCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200
Db 1238 CGATCAGCAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1297
Oy 1201 AAGGCGAGAGAGAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
Db 1298 AAGGCGACACCGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1357
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Db 1418 CGTTCCCTCCCTCTGAGAGATGGCAGCGGAGGGGCGCCCTGATGGATGATCTACACA 1477
QY 1381 TACCCCTCTGGCTACCAACACCGGGCCCGCAGAGACCTTGAGTCTGAAAGCTGAGC 1440
Db 1478 AGGTGTGAGACCCAGTTGTGTGACTGTGTGACAGATCTCTGACAGATTCAGAGTCCAG 1537
QY 1441 CACGACAGCTTCTGAGAGTTAAGAGAAATGAGGTGAATGAGAGCGAGGCTTGAGC 1500
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QY 1855 TGGACAAAGGATTCAGAGCATCTGCTGCGAGGGTGAAGATGTGTCACCTTGTGANG 1914
Db 1958 TGGACAAAGGCTTCAGAGCCTCTGAGAGCAGAAAGAAACATGATGAGCTTGTGCCGA 2017
QY 1915 GAAGGATTCACCGGCGAGAGAGTTTGACGATGTGTCGCTGCGCTGATGATGACACA 1974
Db 2018 GATGCTATTCAGAGAGAGAGGAGCTTTGATGATGATGTGTCAGATGATGAGACACA 2077
QY 1975 GTTGGGACTATGATGATGATGTGCTACGAAAGACCTCACTGTGAAGTTGGCTCATTTGT 2034
Db 2078 GTGCCCAATGATCTCTCTGCTACTATGAAAGCCGCAATGTGAGTGGCATGATTTGTG 2137
QY 2035 GGCACCCGAGCAACCGCTGCTACATGGAAGATGCGTAATGTGAGCTGTGAGCGA 2094
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QY 2095 GAGAGGACGAGATGTGTCAACATGAGAGGGGAGCATTTGGGAGACAATGGCTGCTG 2154
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QY 2155 GATGACTTGGCGACCGTGTGTGATGCTGTGATGAGACTTCTCTCAACCTTGGCAAA 2214
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QY 2335 AGGGAATCTCTGAACCTTCACTCTGATGATGAGAGCGACTGCTGAGCCCTGCTA 2394

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Db 2438 CGTGTGCTTTTGAGACCCCTTTCGTTGTCACAAAGTGGAGAGGACATCCGGGAGCAAG 2497
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QY 2575 GCGGTGAGGAGCTCTGTATAGCTTCACTTCACTTTCAGAGTCAATGATGAGAGC 2634
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QY 2635 GTGAGAGATCTGCTCCGAATGTGACGTGTCTCTGGAATCCGAGAGCGGAGTGGG 2694
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QY 2695 AAGGAGACGCTCTCATCACTGCGGTGCGCTGC 2727
Db 2798 AGGAGAGCCGACTGTGCTGTGCGGTGCGCTGC 2830

RESULT 8
US-08-588-976-8
; Sequence 8, Application US/08588976
; Patent No. 5891717
; GENERAL INFORMATION:
; APPLICANT: Christopher B. Newgard, et al.
; TITLE OF INVENTION: Methods and Compositions for
; TITLE OF INVENTION: Inhibiting Hexokinase
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESSES:
; ADDRESS: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: US
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/588,976
; FILING DATE: Concurrently herewith
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fussey, Shelley P.M.
; REGISTRATION NUMBER: 39,458
; REFERENCE/DOCKET NUMBER: UFSO:481/FUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (512) 474-7577
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2911 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-588-976-8

Query Match 44.2%; Score 1218.2; DB 2; Length 2911;
Best Local Similarity 65.6%; Pred. No. 0;
Matches 1794; Conservative 0; Mismatches 933; Indels 6; Gaps 1;
QY 1 ATGATCCGCTGCAATGATGCTGCTTATTCAGGAGCTCAACAAACCAAGTGCAG 60

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157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480 1481 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496 1497 1498 1499 1500 1501 1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537 1538 1539 1540 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564 1565 1566 1567 1568 1569 1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1599 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654 1655 1656 1657 1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675 1676 1677 1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700 1701 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000

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OY 2215 CAGAGCTTCGAGAGATGATGACGGCCATGTACTTGGAGAGATTGGCCCAATTCTC 2274
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Db 2318 CAGCTGTACGAGAGATCATCGTGGGAATATATGGCCAGCTGTACACTTGTCTG 2377
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OY 2275 ATGAGATTTCACGAAAGCGGGGCTGCTCTTCGAGAGCCGATCTCAGAGCCCTCAAGACA 2334
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Db 2378 CTTAAGCTGTGGACGAGAACTTCTGTCTCCACGGAGAGGCTCGAGAGCTGCGCCAGC 2437
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OY 2335 AGGGGAATCTCTGAACATAAGTCTCTCTCAGATAGAGAGGAGGCTGAGCCCTGCTGA 2394
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2438 CGTGGTGTCTTTTGAAGACCCCTTTCGTCTCACAAGTGGAGAGGCTCGGGGACCGAAG 2497
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 2395 CAGCTTCTGCTCCATCTCTGCGCCACCTAGAGGCTGGAGAGACAGTCCGATGACAGATCATC 2454
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Db 2498 CAGATCCACAACTCTTAAGACACTGTGGGGCTTCGACCCCTCTGTACCCAGCTGCCAATT 2557
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OY 2455 GTAAAGAGAGTGTGCACTGTGGTGGCCGGCGGCTGCACAGCTCTGTGGCGGAGCAGT 2514
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Db 2558 GTGCGCCGTGCTGTAAAGAGCTGTCCACTCGGCGCCCATATGTGCTCCGAGACTTA 2617
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 2515 GCCGCCCTAGTGAACAAGATTAAGAGAGAACCGTGGGCTGGACAAACCCAAAGTGACAGT 2574
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Db 2618 GCTGGGCTCATTAATGCGATGCGCCAAAGCCGAGTGAAGAGAGCTGATGGCCATCACTGTG 2677
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OY 2575 GCGGTGACGGGACCTCTGTATAAGCTTTCATCTCACTTTGCCAAGTGCATGATGAGAGC 2634
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2678 GCGGTGATGCTGCTCGGTGAACAAGCTGCACCCGAGCTTCAAGAGCGGCTTCAACGCCAGT 2737
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OY 2635 GTGAGAGATCTGCTGCCGAAATGTGACGTGTCTTCCTGGATTCGAGAGACGCGACTGG 2694
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Db 2738 GTGGCAGAGCTGACACCCCACTGCCAAATCACTTCATGAAATCAAGAGGGGACAGCGC 2797
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OY 2695 AAGGACACAGCTCTCATCACTGCTGCGGTGCGCTG 2727
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2798 ACGGACCGCAGCTGTCTGCGGTGCGCTG 2830
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RESULT 9

US-08-588-983-17

Sequence 17, Application US/08588983

Patent No. 5854067

GENERAL INFORMATION:

APPLICANT: Christopher B. Newgard, et al.

TITLE OF INVENTION: Method and Compositions

NUMBER OF SEQUENCES: 43

CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: TX

COUNTRY: US

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/588,983

FILING DATE: Concurrently herewith

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: Fussey, Shelley P.M.

REGISTRATION NUMBER: 39,458

REFERENCE/DOCKET NUMBER: UTSD:424/FUS

TELECOMMUNICATION INFORMATION:

TELEPHONE: (512) 418-3000

TELEFAX: (512) 474-7577

TELEX: n/a

INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:

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; LENGTH: 3692 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-588-983-17

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Query Match          36.0%; Score 990.8; DB 2; Length 3692;
Best Local Similarity 62.3%; Pred. No. 4,2e-266;
Matches 1619; Conservative 0; Mismatches 957; Indels 24; Gaps 3;

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OY 139 ATGAGAAAGGCTAGGAGCTACCAAGCCCTACAGCAGCTGTAAGAAATGGTGGCTACC 198
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Db 252 ATGAGCAAGGCGCTGAAGGAGACAGAGACAGTCCCGCTCTTCTGTCCGATGTTGCCACA 311
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OY 199 TTTTGAGGTCACTCCGATGGAGACAGAACTGGGAGTTCTGCTCTGATCTTGG- 257
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Db 312 TACGTGAGGTCCACACACATATGACCCAGCAAGAGACTTCTGCTGTGAGCTGGGG 371
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 258 -----AGAACCAACTTCGCTGTGCTCCGAGTAAAGGTGACGAGACAAATGGCTCCAGAGA 312
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 372 GCCACAGAGAGCTTCACTACGTGTGTGTGTGTTACACTGACGAGGAGCCAGAACGACACAG 431
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 313 GTGAGATGAGAGAACCAAGATCTACGCCATCCCTTGAGACATCATCGGGGAGTGGGAACC 372
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Db 432 GTGAGACACAGAGACGAGAGAGTTGTGATCCCTCAAGAGTGTATCTAGTGTGCTGGCAG 491
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OY 373 CAGCTGTTGACACACATGCGCAATGCTGGCCAACTTCATGAGACAACTCAAAATCAA 432
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 432 CAGCTGTTGACTTTGCTGGCCCGGCTCTCTGTAATTCCTGATGATACCTACCCGCTGGAG 551
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OY 433 GAGAGAAAGCTCCCTCGGCTTTTACCTTCTGCTGTTCCCTGCGCCAGACAAACTGAT 492
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Db 552 AATCAGGGCTCTGAAGCTTGGGTTAATTTCTTTTCTTTCTTCTTCTTCTTCTTCTTCTTCTT 611
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 493 GAGACTTTTGTGCTGCTGCTGACTAAGGGTTCAAGTCCAGTGGCGTGGAGAGCAGAGAT 552
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Db 612 AAGAGCACCCCTCATTTCTCGGACAAAGGTTTATGATGATGATGATGATGATGATGATGATGAT 671
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 553 GTGTTGAGACTGATCCGGAAGTTATCCAGGCGAGAGGGGACTTTGACATTTGACATTTGTC 612
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 672 GTGTTCCAGTTGCTTAAGGATGATCCATTCAGAGGAGGAGGACTTCAATTTTGAATGTGGTA 731
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 613 GCCGTGTGAATGACACAGTTGGGACCATGATGATGATGATGATGATGATGATGATGATGATGAT 672
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Db 732 GCCATGTGAATGACACAGTGGTATCATGATGATGATGATGATGATGATGATGATGATGATGAT 791
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OY 673 GAGATGCTCATTTGTGGGACTGCGACAGACGCCCTGCTACATGAGAGAAATGCTCAT 732
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Db 792 GAACTCGGCTTATTTGATGACAGTGTACCAATGCCCTGTTATATGAGAGAGAGGAC 851
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OY 733 ATTGACATGTGTGAGGAGATGAGAGGCGCATGTGATCAACATGAGTGGGAGGAGCCCTT 792
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Db 852 GTGGCAGCTCTGGAATGAGAGACCGGCGGCTGACCTGCTGACATCGAGTGGGCTCTTTC 911
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OY 793 GGGAGCAGGCTACATCAATGACATCCGAGAGTTGACCGAGAGATCGACATGAGGC 852
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Db 912 TATGACCAAGAGGCGCTTAGGGCCAGTACTGACCACTTCAGACAGTGGCCCTGGACACAGAG 971
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OY 853 TCGCTGAACCTGGGGAAGGAGCTGTTGAGAGATGATGATGATGATGATGATGATGATGATGATGAT 912
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Db 972 TTCCTGTTCTCTGTGCTGCTGAGGTTGAGAGATGATGATGATGATGATGATGATGATGATGATGAT 1031
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OY 913 CTGCTAGGCTCATCTGTTGAGATGAGGCAAGGAGAGCTGTTGTTCCAGGGAATC 972
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Db 1032 CTGTTAAGCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1091
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OY 973 AGCCCAACTCTTACACTGCTCTTTCAGAGACCAAGATGCTGATATTTGAAGAG 1032
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Db 1092 TCTCTGCTGTGCTGAGTCAAAACAGACATCCTCTGACACATGTGCAAAATGAGGAGAC 1151
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OY 1033 GATAGAGATGAGATGAGAGAGGCTTACCAAAATGCTGATGCTGCTGATGATGATG 1092
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Db 1152 CTTGCCACTGTGATACGCCACGCTCCACACAGTCTCAGAGGCTTGGGCTGAGGCTCTCAG 1211
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Qy	1093	CAGAGAGATTGGTGGCCACGACCGAATCTGCGCAGATTGTGTCAAGCGCTCGGCCAAT	1155
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Qy	1153	CTGTGGCAGCACACCCTGGCCCGGTGTGTGGGGAAATTCAAAGAGAAAGGAGCGAGAG	1212
Db	1272	CTCTGTGGCTTGTCCCTGGCTGTGACATCTTATCCGCGCTCCAGCAGCAGAGGAGCAGCAG	1311
Qy	1213	CGACTTCGCTCCACCATGGGTGTGTGATGTGTGCTCGGTCTCAAGAAGACATCCCATTTTGGC	1272
Db	1332	ACACTGTCACTGTGGCCGTGTGGCCACTGTGAGGGGAGATGTTTCCAAATGCCACCCAGGTTCCTC	1391
Qy	1273	AACCGTCTCCATTAAGCAGTAGTAGAGAGTGTGTGGCCGCACTGTGATTCGGCTTCCTCGGC	1332
Db	1392	TGCACTCTTAAGAGAACGGTATATGCTCTGTGGCCCCAGAGTGTATGTCTCTTCAATCCCG	1451
Qy	1333	TCTGAGGATGGCAGCGGCGAAGGGGGCTGTATGTGTGAACGGCGGTGTGCTTAACCGTGTGCT	1392
Db	1452	TCTGTGTGATGTGTGTGGCCGGGGGTGTGTGGCAATGTGTGATCTGTGTGGCAGCCCGCTGGCT	1511
Qy	1393	GACCAACACCGGGGCCCCGCAACAACCCCTGAGATCTCTGAGCTGAGCCAGCAGCTT	1452
Db	1512	ACCCACAGGGCGATCTCTTGAAGAGAACCTTGGCACCACTTTCAGGTGAGCTTGTGAGCAGCTG	1571
Qy	1453	CTGAGAGTTAAGAGAAGATGAAGTGAATGGAGCAGGAGTGTGAGCAGAGAGACGAT	1512
Db	1572	ACAGCGGTGTGAGGCAAAATCCGGGAAGCATATCAGGGGGCTTCAGAGAGAG-----	1626
Qy	1513	GGGGTGGCCCTGTGAAAGTCTGTCCCACTTACGTGTGGCACTCCAGATGGCACAG	1572
Db	1627	-----GCTCTCCCTCCGATGTCTGTCCCACTTACGTCCGAGCAACCCGATGGCAGCGAA	1682
Qy	1573	AAGAGAGACTTCTGGCTTGGATCTGTGGAGAAACAATTCGCGGTCTGTGTGTGTGT	1632
Db	1683	CGAGTGAATCTCTGGCTTTGTGACCTTAGGGGGGACCACTTCCGCTGTGTGTGTGTGTGT	1742
Qy	1633	GTGGCTAATGGCAAGCGAGGGGCGTGTGAGATGCATTAACAGATCTTACCTCCACAG	1692
Db	1743	GTGGCCGAGGGCA-----GTGTTCAGATTCACCAACAGAGTCTACTTATTCCTGAG	1793
Qy	1693	GAGGTATGACTGTGCACTGGGGAGAAAGCTTCGACACATTTGTCAATGCTGATTCGGAC	1752
Db	1794	TATGTAGCCCAAGGGCTGTGACAGCAAAAGCTTTGTGATCATATTGTGTGACTGTGATGTGAC	1853
Qy	1733	TTCTCGAGTAGTACGAGCATGAAGGGCGTGTCCCTGTGGCTTTGGTTTACATTTCTCTTC	1812
Db	1854	TTTCCAGAAAGAGGCAAGGCGCTTTAGCGGACAGAGCATACCCGTGTGGTTTACCTTCTCTTTT	1913
Qy	1813	CTTTGCCAGAGAAACAGCCCTAAGCAGACATCTCTCAAGTGTGACAAAGGATTTCAAG	1872
Db	1914	CTTTGCCAGAGACTTGGCTGTGACAGCGGCACTCTCTCACTGAGACTTAAGGGTTTCAAT	1973
Qy	1873	GCATCTGTGCGAAGGTGTGAGATGTGTGCACCTTGTGGAAGAAAGAGATTCACCGGCGA	1932
Db	1974	GCATCAGGCTGTGCGAGGGCCAAAGATGTTGTATTATTATTCAGGAAAGCCATTAGGCGAGA	2033
Qy	1933	GAGAGTTTACCTCGATGTGTGTGTGCTCGCTGTGTAATGACACAGTTTGGAGCTATGATGACT	1992
Db	2034	CAGGACTGTGAGCTGATGTGTGTGTGCTTGTCAATGTCAACAGGTGTGGACCATGATGTCC	2093
Qy	1993	TGTGTGTACAAACACCTCACTGTGAAGTTGGCCCATTTGTGGCACCGGACCAACGCGC	2052
Db	2094	TGTGTGTATGATATCCCTCTTGTGTGAGATGGGCTCTCATTTGTGGAACCGGTATCCAGCGC	2153
Qy	2053	TGCTACTGAGAGATGCGTATATGTGAGCTGTGAGCAGGAGAGAGAGGAGCAGATGTGT	2112
Db	2154	TGCTATATGTGAAMATCTCGGAATGTGGGTGAGTGTGCCCGGGGAGCTCAGGCCAATGTGT	2213
Qy	2113	GTCACATGAGTGGGAGCATTGTGGGGCAATGGCTGCTGATGACTTGTGGACCGTG	2172
Db	2214	ATCAACATGAGTGGGGTCTCTTTGGGATGACGGCTCTCACTGACATGCTTCGGCACCTCC	2273

[illegible]

RESULT 10
 US-08-588-976-17
 : Sequence 17, Application US/06588976
 Patent No. 569177
 GENERAL INFORMATION:
 APPLICANT: Christopher B. Newgard, et al.
 TITLE OF INVENTION: Methods and Compositions for
 TITLE OF INVENTION: Inhibiting Hexokinase
 NUMBER OF SEQUENCES: 43
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: TX
 COUNTRY: US
 ZIP: 77210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/588,976
 FILING DATE: Concurrently herewith
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Fussey, Shelley P.M.
 REGISTRATION NUMBER: 39,458
 REFERENCE/DOCKET NUMBER: US/08/481/FUS
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (512) 418-3000
 TELEFAX: (512) 474-7577


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;
; TELEX: n/a
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3692 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-588-976-17

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Query Match      36.0%; Score 990.8; DB 2; Length 3692;
Best Local Similarity 62.3%; Pred. No. 4.2e-266;
Matches 1619; Conservative 0; Mismatches 957; Indels 24; Gaps 3;

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Oy 139 ATGGCAAAAGGCGTAGACCTACACGACCCCTACAGACGCTGGAATAATGTTGCTACC 198
Db 252 ATGGCAAAAGGCGTAGAGGACAGACAGACCTCCGCTCTTCTGTCCGATGTTGCCACAC 311
Oy 199 TTTGTGAGTCAACTCCGATGGGACAGAAATGGGAGTTCCTGGCTTGATCTTG- 257
Db 312 TACGTGAGTCCACACACACATGGCACCGGCAAGGAGACTTCTGCTGGAGCTGGGG 371
Oy 258 -----AGCAACCACTTCGCTGCTCCAGTAAGGGTACGGACAATGGCCTCCAGAGA 312
Db 372 GCCACAGAGCCCTCACTAGCTGTGTGGGTAACTGACCTGACGGGACCAAGAGACACAGC 431
Oy 313 GTGACATGGAGAACCAAGATCTACGCCATCTTGAGAGACATCATGGGGGAGTGGAAAC 372
Db 432 GTGGAACACAGAGAGCCAGAGATTGTGATCCCTCAAGAGATGATCCTAGTGTCTGGCCAG 491
Oy 373 CAGCTCTTTGACCAACATCCCGGATCCCTGGCCAACTTATGAGACAGCTACCAATCAAA 432
Db 492 CAGCTCTTTGACATTTGCTGCTCCGCTGCTCTCTGAATTCCTGGATCATACCCCGGGAG 551
Oy 433 GAGAACAAGCTCCCTGGGATTTCACCTTCTGCTCCCTGGCCACGACAGCAAAACTGAT 492
Db 552 AATCAGGGTCTGAAGCTTGGATTAAATTTCTCTTCTTCTTGTCACAGACAGGCTTGGAG 611
Oy 493 GAGAGTTTTTGGTCTGCTGAGACTAAGGGTTCAAGTCCAGTGGCTGGAAAGGCAAGAT 552
Db 612 AAGAGACCCCTCAATTCCTGAGCAAAAGTTTAACTGTGACGTGAGAGGCCAGGAT 671
Oy 553 GTGCTGACACTGATCCGGGAAGTTATCCAGCGGACAGAGGGGACTTTGACATTTGAT 612
Db 672 GTGCTGACAGTTGCTAAGAGATCCCATTTCAAGAGGACGGGACCTACATATTTGATGTA 731
Oy 613 GCCCTGCTGAATGACACAGTTGGACCATGATGACTTGTGGCTATGATGATCGAAGCTGC 672
Db 732 GCCATGGTGAATGACACAGTGGGATGATGAGCTGGAGCTGGGACCAAGGCCATGT 791
Oy 673 GAGATTTGCTCATTTGTTGGGCACTGGCAGGAGCCCTGCTACATGAGAGAAATGGCTCAT 732
Db 792 GAAGTCCGGCTTATTTAGACACTGTGACCAATGCCCTGTTATATGAGAGGAGAGGAGCAC 851
Oy 733 ATTGACATGCTGAGAGGATGAGAGGGGCGCATGCTGATCAATGATGAGGGAGGACCTTT 792
Db 852 GTGCAAGCTCTGATGAGAGACCCGCGGCTTACCTGTGTGATGATGAGTGGGCTCTTCC 911
Oy 793 GGGGACGACGGTACACTCAATGACATCCGAGAGTTTGGACCGAGATGACATGGGC 852
Db 912 TATGACGAAGAGGCCCTAGGGCCAGTACTGACCACCTTCCAGCATGGCCCTGGACCAAG 971
Oy 853 TCGCTGAACCTTGGGAAGCAAGCTTTTGAAGATGATTTAGGGGAGTATCATAGGGGAG 912
Db 972 TCCCTGCTTCTGCTGCTCAAGAGTTTGAGAAGATGATTTGAGCCCTTTACTTGGGTGAG 1031
Oy 913 CTGCTCAGGCTCATCTGTGGAAGATGGCAAGGACAGCTGTTGTTTCCAAGGAAATC 972
Db 1032 CTGCTAAGGCTGTGCTGTGCTCACTTCTCCAGATGGGCTCTCTTTGGTGGCTGGCC 1091
Oy 973 AGCCCAAGACTCTTACCACTGGCTCTTGAAGACCAAGATGCTTCGGAATATTGAAG 1032
Db 1092 TCTCTCTGCTGTGATGATCAAAACAGCATCTCTCTGGAACATGTGGCAAAATGAGAGAC 1151

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Oy 1093 GATTAAGATGATCGAAGAGGCGCTACCAATCTGATGGCGCTGGGCTGTAATTCATTTG 1092
Db 1152 CCTGCCACTGGGATAGGCCACAGTCCACACAGTCTGAGAGGCTTGGCTGAGCCCTCAG 1211
Oy 1093 CAGGAGATTGTGTGGCCACGACCGAATCTGCCAGATTGTGTCCACGCGCTGGCCACT 1152
Db 1212 GCTCAGATGCTGAGCTGTGACAGCGGCTGATGGCTGTGTGACGACGAGCTGGCCAG 1271
Oy 1153 CTGTGGCGAGCCACCGCGCGGCTGTGGGATTCAGAAAGAGAGAGGCGAGAG 1212
Db 1272 CTGTGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1331
Oy 1213 CGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1272
Db 1332 ACACCTGCACTGGGCGGAGGACAGTGAAGGAGTGTTCGAATGGACACCCAGCTTCTC 1391
Oy 1273 AAGCTCTCCATTAAGGACATGAGAGGCTGTGGCCACGCTGATGATGCTTCTGCTGCT 1392
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Oy 1333 TCTGAGATGACAGGCGCAAGGGGCTGTATGGTGAAGGCGGCTTACCTGCTGCT 1392
Db 1452 TCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1511
Oy 1393 GACCAACACCGGCGCCGCCAGAAAGCCTGGAATCTCTGAAGCTGAGCGACGACACTT 1452
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Oy 1453 CTGAGGTTTAAGAGAGATGAAGGTGAATGAGAGGAGCTGAGCAAGAGACGAT 1512
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Oy 1513 GCGGTGCCCTGTGAGAGATGCTGCCACTTACGTGTGTGCTGCTGCTGCTGCTGCTGCT 1572
Db 1627 -----GCTCCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1682
Oy 1573 AAAGAGACTTTTGGGCTTGGATCTTGGAGAACAACTTCCGGGCTCTGCTGCTGCT 1632
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Db 1743 GTGCGGAGAGGCA-----GTGTTCAATCAACCAACAGCTGATCTTCAATTCCTAG 1793
Oy 1693 GAGCTTATCATGAGCACTGGGGAAGAGCGCTTGCAGCAATTTGTCAGGATTCGGAG 1752
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Db 1914 CCTTGCACGACAGCTTGGCTGAGCAAGGCAAGGCTCTCTCACTGAGCAAAAGGATTCAG 1973
Oy 1873 GCATCTGCTGCGAGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1932
Db 1974 GCATCTGCTGCGAGAGGCGCAAGATGATGATGATGATGATGATGATGATGATGATGATGAT 2033
Oy 1933 GAGGATTTGACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1992
Db 2034 CAGGAGTGGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2093
Oy 1993 TGTGCTACGAAGACCTTACGTGATGATGATGATGATGATGATGATGATGATGATGAT 2052
Db 2094 TGTGCTACGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2153
Oy 2053 TGTGCTACGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2112
Db 2154 TGTGCTACGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2213
Oy 2113 GTCAACATGGAGTGGGAGCAATTTGGGAGCAATGGCTGCTGATGATGATGATGATGAT 2172

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Db	2214	ATCAACATGAGAGGGGGTGCCTTTGGGGATGACGGCTACTGACATGCTGGCACCTCG	2273
Qy	2173	TTTGAATGTTGCTGTGGATGAGCTTTCTCTCAACCCCTGGCAACAGAGGTTTCGAAAGATG	2232
Db	2274	TTTGTATCTTAAGCTGTGACACGAGCATCTCAACACGACGAACAGAGGTTTGAAGAAATG	2333
Qy	2233	ATCAGCGGCATGTACTTTGGGAGAGATTTGGCCAACTTTCTCATCGATTTTCAGCAACGGC	2292
Db	2334	ATCAGCGGAAATGTACTCTGGGGGAGATCGTCCGCCATTCCTCTTCACATTAAACAGTCTT	2393
Qy	2293	GGGCTGCTCTTCCGAGCCCGCATCTTCAGAGCGCCCTCAGACAAAGGGAATCTGAAACT	2352
Db	2394	GGAGATCTCTTCGCGGGGCCAGAAAGACGAAATCCTTTCAGACCAGGGACATCTTTAAAGCC	2453
Qy	2353	AAGTTCCTGTCTCAGATAGAGAGCGCATGCTAGCCCTGCTCACAAGTTTCGTGCCATCTCG	2412
Db	2454	AAGTTTCTCTCCAGATGTAGAGCGACAGCTCGGCCCTCGTCAGACTCCAGACCATCTCG	2513
Qy	2413	CGCCACCTAAGGGCTGAGAGACACGTGCGATGACAGCATTCATCTGAGAGAGGTGCACT	2472
Db	2514	GAGGACCTGGGGCTGACTCTGACTGTGATGATGCCCTTGATGTGCTTAAAGTGTGCCAG	2573
Qy	2473	GTGTTTCCCGGGCGCTGTGACAGCTCTGTGGCCAGGATGCGCCCGCTAGTGGACAG	2532
Db	2574	GCGTGTCTCCGCAAGGGCCGCCCAACTCTCGGGGGCAGGTGTGGCTGACAGTGGTGAAGAAG	2633
Qy	2533	ATAAGAGAAACCGTGGCGTGGAGCAACCCCAAGATGACAGTGGCGGTGGACGCACTGTG	2592
Db	2634	ATACGGAGAAACCGGGGCGCTGTGACAGAGCTGACAGTGTCTGTGGAGTGTATGGACGCTC	2693
Qy	2593	TATTAAGCTTATCCTCATCTTTGGCAAGGTTCATGATGACAGCGGTGAGAGATCTGGCTCGG	2652
Db	2694	TACAAGCTATACCTCCACTCTCTCCAGAGCTGTGTACGTGACAGTTTCGGAAGCTAACCCCT	2753
Qy	2653	AAATGTGACGTGTCTTCTCTGGAATCCGAGAGCCGAGTGGGGAAGGAAACACTTCTCATTC	2712
Db	2754	CAGTGACACAGTACACTTTTGGTGCATGTGGAGATGGGTCTGGGAAAGGGCAGCGTTGGTCT	2813
Qy	2713	ACTGCCGTGGCCTCCGCGCAT	2732
Db	2814	ACTCGTGTGCTTGCCTTGCCT	2833
RESULT 11			
US-08-588-983--6			
Sequence 6, Application US/08588983			
Patent No. 5854067			
GENERAL INFORMATION:			
APPLICANT: Christopher B. Newgard, et al.			
TITLE OF INVENTION: Methods and Compositions			
TITLE OF INVENTION: for Inhibiting Hexokinase			
NUMBER OF SEQUENCES: 43			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: Arnold, White & Durkee			
STREET: P.O. Box 4433			
CITY: Houston			
STATE: TX			
COUNTRY: US			
ZIP: 77210			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: PatentIn Release #1.0, Version #1.30			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/08/588,983			
FILING DATE: Concurrently herewith			
CLASSIFICATION: 424			
ATTORNEY/AGENT INFORMATION:			
NAME: Fussey, Shelley P.M.			
REGISTRATION NUMBER: 39,458			
REFERENCE/DOCKET NUMBER: UTSD:424/FUS			

Query Match	25.7%	Score 706.8	DB 2.8	Length 1463
Best Local Similarity	69.8%	Pred. No. 3.7e-187		
Matches 954	Conservative 0	Mismatches 412	Indels 0	Gaps 0
TELECOMMUNICATION INFORMATION: TELEPHONE: (512) 418-3000 TELEFAX: (512) 474-7577 TELEX: n/a INFORMATION FOR SEQ ID NO: 6: SEQUENCE CHARACTERISTICS: LENGTH: 1463 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear US-08-588-983-6				
QY	1	ATGATCGCCCTGCATATGATCGCTTGTATTTACAGGAGCTCACCAACCAACCAAGTGCGAG	60	
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QY	61	AAGTTTGACCAATTTCTCTACCACTGCGTCTCTCATAGATGACACCTTTGTGAGATTCT	120	
DB	158	AAGATTGACCAATTAATCTGATACCCATGCGGCTCTCTGATGAAATTTCTGATTAATATCCG	217	
QY	121	AGCGGTTCGGAAGAGATGAGAGAGGGCTAGAGAGCTACACAGCAGCCCTACAGCAGCT	180	
DB	218	ACACATTTCAAAAGAGATGAGAGATGAGGCTCTCCCGGATTTATTAATCCAAACGCTTC	277	
QY	181	GTAAGAAATGTTTCTCACTCTTGTGAGGTCACTCCGAGTGGGACAGACATGGGGAATTC	240	
DB	278	GTCAGATGCTGCCACCTGCTCGGTCTCATTTCCGAGCGGCTCAGAAAAGGGGATTTTC	337	
QY	241	CTGGCTCTGGATCTTTGGAGGAACCACTTCCGTGCTCTCCGATGAAGGTGACGGCAAT	300	
DB	338	ATTGCCCTGGAATCTCGCGGCTCTTCTTCAATCTCGGGTGCAGGATGAGAACCCAGAG	397	
QY	301	GGCCCTCCAGAGAGTGGAGATGAGAGAACAGATCTACGCCATCTTGAGGACATATGCGG	360	
DB	398	ANGAACCGAGACGTCAAGCATGAGATCTGAGATCTACGACACCCAGAGAAACATCGCAT	457	
QY	361	GGCAGTGAACCCAGCTGTTTGAACCACTCGCCGAATGCTTGCCCACTTATGACCAAG	420	
DB	458	GGCAGTGAACCCAGCTTTCGATCTATGTCGTCGATCTGCTGGGAGAACTTATGAGGAAA	517	
QY	421	CTACAAATTAAGAGACAGAAAGCTCCCTGTGGTTTACCTTCTCGTTCCCTCCCAACAG	480	
DB	518	AAGAGATCAAGAGCAAGAAATTAACCGGTGGATTAACATTTCTTCCCTCCCGCAAA	577	
QY	481	ACAAAACCTGATGAGAGATTTTGGTCTGTGATTAAGGGGTTCAAGTCCAGTGGCGTG	540	
DB	578	TCCAAATATGATGAGGCTGTACTGATCAGCTGGACAAAGGGGTTCAAAGSCAGTGGGCTG	637	
QY	541	GAGGAGAGATGTGTGTGACCTGATCCGGAAGTTATCCAGCGAGAGGGGACCTTTGAC	600	
DB	638	GAAAGAGCGGATGTGTGTCAAAGTTGCTGAATTAAGCCATTAAAGAGCGAGGGACATAGAT	697	
QY	601	ATTGACATTGTGGCCGTGTGTAATGACACAGTTGGACACATGATGACTTGTGGCTATGAT	660	
DB	698	GCTAATATTGTCCCTGTGTGATGACACAGTAGGGACCATGATGACCTCGGTTATGAT	757	
QY	661	GATCACAACCTGGGAGATTTGGTCTCATTTGGGAGCTGGACAGCAAGCGCTCTCATATGAG	720	
DB	758	GACCAACAGGTGAAGTGGCTGTGATCATATTGGCACAGGACACCAATGCTTGTCTCATATGAG	817	
QY	721	GAAATCGCTATATTACATATGTGAGGAGGATGAGGGGCGCATGTGCATCAACATGAG	780	
DB	818	GAACTGGACACATTCAGCTGTGTGAAAGCGGAGAGGGAGGATGTGTATTAACACGAA	877	
QY	781	TGGGAGACCTTTGGGAGCAGCGGTACACTCAATGACATCCGAACCGAGTTTGACCGAG	840	
DB	878	TGGGAGACCTTTGGGAGTGTGATGCTCCCTGGAAGACATTCGAAACCGAGTTTGACAGAG	937	
QY	841	ATGACATGGCGTGTGAAACCTGGGAGACAGCTGTTTGAAGATGATTAAGCGGATG	900	

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Db 928 TTAAACCGTGATCTCTCAACCGTGGAGACAGCTGTTGAGAGATGTTAGCGGCATG 997
Qy 901 TACATCGGGAGCTGTGTCAGGCTCATCTGTTGAAGATGCCAAGCAGAGCTGTTGTTG 960
Db 998 TACATCGGGAGCTGTGTCAGGCTCATCTGTTGAAGATGCCAAGCAGAGCTGTTATTC 1037
Qy 961 CAAGGAAACACACCCAGACCTCTTACCACTGCTCTTTCGAGACCAAGATGTCG 1020
Db 1058 GAAGGGCGCATCTCAAGACCTGCTCAAGAGGGAAGTCAACACTAGTACGTGTC 1117
Qy 1021 GATATTGAGAGATTAAGATGATGAGAAAGCTTACCAATTCGATGCTGCTGGT 1080
Db 1118 GCCATTGAAAAAGATTAAGAAAGCATTCMAAATCCCAAGAAATCTTAACCCGCTTGGGA 1177
Qy 1081 CTGAATCATTTGACGAGAGATTGTGGCCACGCAAGTCTGCAAGATTGTGTCAG 1140
Db 1178 GTGAGACCGCTGTGATGTTGACTGTGTGTCGATCAGACATCTGACAGATGCTCTTC 1237
Qy 1141 CGCTCGCCAGTGTGTGTCGAGACCCCTGCGCGCTGCTGTGGCAATCAAGAGAAC 1200
Db 1238 CGATACGACCAACTGTGTGCGCGCCAGCTGTCGTCATCTTGAACCCCTGCGGACAC 1297
Qy 1201 AAGGGCAGAGGAGCTTCTGCTCCACCATCGTTCGATGCTCCCTCTCAAGAAACAT 1260
Db 1298 AAGGGCAGACCCAGCTGTGGGACCAAGCTTGGGCTGAGCGTTCTCTCAAGATGCAC 1357
Qy 1261 CCCCATTTTCCCAAGCTCTCCATTAAGCAGTAGAGAGCTGTGCCGACTGTGATGTC 1320
Db 1358 CCACTACTCTCCGCGCTTCCACAAAGACCTGAGGCGGTGCTGCTGACTGACGAGTC 1417
Qy 1321 CGCTTCTCCGCTCTGAGATGGCAGCGGCAAGGGGCTGCTATG 1366
Db 1418 CGTTCTCTCTCTCAGAGAGTGCACGCGCAAGGGGCGCCATGG 1463

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RESULT 12

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: US-08-588-976-6
: Sequence 6, Application US/08588976
: Patent No. 5891717

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GENERAL INFORMATION:

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: APPLICANT: Christopher B. Newgard, et al.
: TITLE OF INVENTION: Methods and Compositions for
: NUMBER OF SEQUENCES: 43
: CORRESPONDENCE ADDRESS:

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: ADDRESS: Arnold, White & Durkee

```

```

: STREET: P.O. Box 4433

```

```

: CITY: Houston

```

```

: STATE: TX

```

```

: COUNTRY: US

```

```

: ZIP: 77210

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COMPUTER READABLE FORM:

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: MEDIUM TYPE: Floppy disk

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: COMPUTER: IBM PC compatible

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: OPERATING SYSTEM: PC-DOS/MS-DOS

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: SOFTWARE: Patentin Release #1.0, Version #1.30

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: CURRENT APPLICATION DATA:

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: FILING DATE: US/08/588,976

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: CLASSIFICATION: 435

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: ATTORNEY/AGENT INFORMATION:

```

```

: NAME: Fussey, Shelley P.M.

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: REGISTRATION NUMBER: 39,458

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: REFERENCE/DOCKET NUMBER: UTSD:481/FUS

```

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: TELEPHONE: (512) 418-3000

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```

: TELEFAX: (512) 474-7577

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: INFORMATION FOR SEQ ID NO: 6:

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: SEQUENCE CHARACTERISTICS:

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: LENGTH: 1463 base pairs

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: TYPE: nucleic acid

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: STRANDEDNESS: single
: TOPOLOGY: Linear
: us-08-588-976-6

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Query Match

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: Best Local Similarity 25.7%; Score 706.8; DB 2; Length 1463;
: Pred. No. 3.7e-187;

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: Matches 954; Conservative 0; Mismatches 412; Indels 0; Gaps 0;

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Qy 1 ATGATCCGCTTCGCAATATGATCGCTCTTATTCAGSAGCTCAACCAAAACAGTGCAG 60
Db 98 ATGATCCGCTTCGCAATATGATCGCTCTTATTCAGSAGCTCAACCAAAACAGTGCAG 157
Qy 61 AAGTTGACCAATTTCTCTACACATGCGTCTCTCAGATAGACCCCTTGGAGATTCTT 120
Db 158 AAGTTGACCAATTTCTCTACACATGCGTCTCTCAGATAGATTTGAAATATTCCTG 217
Qy 121 AGGCGGTTCCGGAAGAGATGAGAAAGGCTAGAGACTACACGCAACCCCTACAGAGCT 180
Db 218 ACAAGATTCAAGAAAGAGATGAGAAATGGCTCTCCCGGATTTATATTCACAGCTTC 277
Qy 181 GTGAAATGTGCTACCTTTGTGAGTCAATCCGATGGAACAGACATGSGGAGTTC 240
Db 278 GTCAAGATGCTGCCACCTTGTCCGTCATTCGAGCGGTCAGACGCTCAGAAAAGGGGGA 337
Qy 241 CTGCTCTGATCTTGGAGAACCAACTTCCGTGTCGAGTAAAGGCTGAGGAGCAAT 300
Db 338 ATTGCCCTGATCTCGGCGGGCTTCTCTTCTGATCTCTGCGGTGCAAGGTGAACACGAG 397
Qy 301 GGCCTCCAGAGATGAGATGAGAACCAAGATCTACGCCATCTTGAGGACATCATGCGG 360
Db 398 AAGAACCAAGACCTCAGCATGAGTCTGAGATCTAGACACCCAGAGAAACATCGTGCAT 457
Qy 361 GGCATGGAACCCAGCTGTTTGGACCAATCCCGATGCGGATGCTGCGCACTTATGACAG 420
Db 458 GGCATGGAACCCAGCTGTTTGGACCAATCCCGATGCGGATGCTGCGCACTTATGACAG 517
Qy 421 CTCAATCAAGAGAGAGAGCTCCCTCTGGGTTTACCTTCCTGCTCCCGGCAACGAG 480
Db 518 AAGAAATCAAGAGAGAGAGAGTACCCGTTGATTCATTTTCTTCCCTGCGACACA 577
Qy 481 ACAAAGCTGATGAGAGATTTTGTGCTGCTGAGTAAAGGCTTCAAGGCTTCAAGTCCAG 540
Db 578 TCCAAAGATGAGAGAGCTGTACTGATCAAGTGAACAAAGCGGTCAAAAGCCAGTGGCG 637
Qy 541 GAAGCAGAGATGCTGATGCTGATCCGGAAGTTATTCACCGCAGAGGAGCTTTGAC 600
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Qy 601 ATTGACATTTGTCGCTGATGATGACACAGTGGGACCATGATGATGCTGATGAT 660
Db 698 GCTAATGTTGTCGCTGATGATGACACAGTGGGACCATGATGATGCTGATGAT 757
Qy 661 GATCAGAACTGGAATGTTGTTGTTGGGCTGAGCAGCAGCCTGCTATGAG 720
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Db 878 TGGGAGGCTTTGGGAGGATGATGATGATGATGATGATGATGATGATGATGATGAT 937
Qy 841 ATGACATGAGGCTGCTGACACCTGAGAGAGAGCTGTTTGAAGATGATTAAGCGGAGT 900
Db 938 TTAAACCGTGATCTCTCAACCGTGGAGAGAGCTGTTTGAAGATGATTAAGCGGAGT 997
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Db 998 TACATGGGGAGCTGTGTCAGGCTCATCTGTTGAAGATGCCAAGCAGAGCTGTTATTC 1057
Qy 961 CAAGGAAACCTCAGCCAGAACTCTTACCACTGCTCTTTCAGAGACCAAAAGTCTCG 1020

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